

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Yao et al.  
Serial No.: 10/037,356  
Filed: October 24, 2001  
Confirmation No.: 6649

For: METHOD AND APPARATUS FOR  
DELIVERY OF SUBMICROLITER  
VOLUMES ONTO A SUBSTRATE

Art Unit: 1743  
Examiner: Unassigned

TRANSMITTAL LETTER

Commissioner for Patents  
Arlington, VA 22202

Dear Sir:

Transmitted herewith via hand delivery are an Information Disclosure Statement, Forms PTO-1449 (3 pages), and cited references for filing in connection with the above-identified application. Because this Information Disclosure Statement is filed prior to receipt of a First Office Action on the merits in the above-referenced application, no fee is due. However, should it be determined that a fee for filing these papers is required, the Commissioner is authorized to charge Deposit Account No. 50-1213, as stated below:

- ☒ The Commissioner is hereby authorized to charge any fee, including any submitted herewith if the attached check(s) is in the wrong amount or otherwise improper or missing, that may be due in connection with this and the attached papers, or with this application during its entire pendency to or to credit any overpayment to Deposit Account No. 50-1213. A duplicate of this sheet is enclosed.

Respectfully submitted,  
HELLER EHRMAN WHITE & McAULIFFE LLP

By: Stephanie Seidman  
Registration No. 33,779

Dated: October 9, 2002  
Attorney Docket No. 24736-2046  
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INFORMATION DISCLOSURE STATEMENT IN ACCORDANCE  
WITH 37 C.F.R. §§ 1.97-1.98

Commissioner for Patents  
Arlington, VA 22202

Dear Sir:

Since this Information Disclosure Statement is filed before the receipt of a first Office Action on the merits for the above-captioned application, no filing fee is due. If it is determined that a fee is due, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-1213.

In accordance with the duty of disclosure imposed by 37 C.F.R. §1.56 to inform the Patent Office of all references known by Applicant or Applicant's representative that may be material to the examination of the subject application, Applicant's representative hereby provides this Information Disclosure Statement that is prepared in accordance with 37 C.F.R. §§1.97-1.98. Forms PTO-1449 (3 pages) and the cited references are provided herewith.

The documents listed on the Form PTO-1449 are in the English language. Hence, in accordance with the requirements of 37 C.F.R. §1.98, as amended effective March 16, 1992, no further explanation of the listed items is necessary.

Applicant makes known to the Examiner the following U.S. and International, patents, publications and applications, owned by Sequenom, Inc., which were originally assigned to GeneTrace Systems, Inc.

**U.S.S.N. 10/037,356**

**Yao *et al.***

**Information Disclosure Stat ment**

**U.S.S.N.(App. No.)**

**Filing Date**

**Docket No.**

09/515,277

02/29/00

2054B

09/089,730

06/03/98

2055C

08/988,024

12/10/97

2057

09/515,357

02/29/00

2058B

09/541,210

04/03/00

2059B

09/139,386

08/25/98

2060

US Patent							Issue Date	Inventor	Filing Date	Docket No.
5	8	5	4	1	3	7	01/26/99	Becker, <i>et al.</i>	10/01/96	2056
5	9	6	5	3	6	3	10/12/99	Monforte, <i>et al.</i>	12/02/96	2055B
6	0	5	1	3	7	8	04/18/00	Monforte <i>et al.</i>	03/04/97	2054
6	0	9	0	5	5	8	07/18/00	Butler <i>et al.</i>	09/18/98	2059
6	1	0	4	0	2	8	08/15/00	Hunter <i>et al.</i>	05/29/98	2058
6	2	6	5	7	1	6	07/24/01	Hunter <i>et al.</i>	02/29/00	2058B

Foreign Patent & Publications							Issue/Pub. Date	Country	Docket No.
9	7	3	3	0	0	0	09/12/97	PCT	2054PC
9	8	1	2	3	5	5	03/26/98	PCT	2055PC
9	8	1	4	9	8	2	04/09/98	PCT	2056PC
9	8	1	9	5	7	8	09/18/98	PCT	2059PC
9	8	2	6	0	9	5	06/18/98	PCT	2057PC
9	8	5	4	7	5	1	12/03/98	PCT	2058PC

Applicant also makes known to the Examiner the following U.S. and International applications, which are commonly owned and/or have one or more inventors in common.

**U.S.S.N.(App. No.)**

**Filing Date**

**Docket No.**

09/297,575

05/03/99

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**U.S.S.N. 10/037,356*****Yao et al.*****Information Disclosure Stat ment**

<u>U.S.S.N.(App. No.)</u>	<u>Filing Date</u>	<u>Docket No.</u>
09/364,774	07/30/99	2001E
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10/128,680	04/22/01	2050B
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09/541,210	04/03/00	2059B
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09/880,988	06/13/01	2408

**U.S.S.N. 10/037,356**  
**Yao et al.**  
**Information Disclosure Statement**

<u>Int'l App. no.</u>	<u>Filing Date</u>	<u>Docket No.</u>
PCT/US01/21308	07/05/01	2035PC
PCT/US01/45123	10/24/01	2046PC
PCT/US02/06728	03/05/02	2048PC
PCT/US01/29290	09/18/01	2049PC
PCT/US02/12903	04/20/01	2050PC
PCT/US01/19249	06/13/01	2408PC

Although these documents are made known to the Patent and Trademark Office in compliance with Applicant's duty of disclosure, such disclosure is not to be construed as an admission by Applicant or Applicant's representative that any of the references, singly or in any combination thereof, is effective as prior art against the subject application. In accordance with 37 C.F.R. §1.97(h), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. §1.56(b) exists.

Applicant respectfully requests that the Examiner review the foregoing references and information and that they be made of record in the file history of the above-captioned application.

Respectfully submitted,  
HELLER EHRMAN WHITE & MCAULIFFE LLP

By:   
Stephanie Seidman  
Registration No. 33,779

**October 9, 2002**  
Attorney Docket No. 24736-2046  
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FORM PTO-1449  INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 24736-2046	SERIAL NO. 10/037,356
	APPLICANT Yao <i>et al.</i>	
	FILING DATE October 24, 2001	GROUP 1743

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
	A	2	7	9	7	2	1	3	06/25/57	Moore	260	141	08/20/54
	B	3	0	4	6	1	1	8	07/24/62	Schmidt	96	33	02/14/58
	C	3	0	4	6	1	2	0	07/24/62	Schmidt	96	33	02/14/58
	D	3	1	4	8	9	8	3	09/15/64	Endermann <i>et al.</i>	96	33	08/12/60
	E	3	1	8	4	3	1	0	05/18/65	Fritz <i>et al.</i>	96	49	01/13/60
	F	3	2	0	1	2	3	9	08/17/65	Neugebauer <i>et al.</i>	96	36	09/01/60
	G	3	4	0	2	0	4	4	09/17/68	Steinhoff <i>et al.</i>	96	91	11/23/64
	H	3	5	6	7	4	5	3	03/02/71	Borden	96	91	12/26/67
	I	4	4	5	8	9	9	4	07/10/84	Jain <i>et al.</i>	354	4	06/07/83
	J	4	4	9	1	6	2	9	01/01/85	Koike <i>et al.</i>	430	176	02/18/83
	K	4	5	5	0	0	6	9	10/29/85	Pampalone	430	165	06/11/84
	L	5	5	4	7	8	3	5	08/20/96	Köster	436	6	01/06/94
	M	5	5	5	0	0	0	4	08/27/96	Honda	430	270.1	08/19/94
	N	5	5	5	8	9	8	3	09/24/96	Simpson <i>et al.</i>	430	619	09/19/95
	O	5	5	6	1	0	2	9	10/01/96	Fitzgerald <i>et al.</i>	430	281.1	04/28/95
	P	5	5	6	7	5	6	9	10/22/96	Aviram <i>et al.</i>	430	296	03/15/96
	Q	5	6	0	5	7	9	8	02/25/97	Köster	435	6	03/15/95
	R	5	6	0	7	8	1	6	03/04/97	Fitzgerald <i>et al.</i>	430	271.1	09/21/95
	S	5	6	2	2	8	2	4	04/22/97	Köster	435	6	02/10/95
	T	5	6	9	1	1	4	1	11/25/97	Köster	435	6	06/06/95
	U	5	7	7	7	3	2	4	07/07/98	Hillenkamp	250	288	09/19/96
	V	5	8	0	7	5	2	2	09/15/98	Brown <i>et al.</i>	422	50	06/07/95
	W	5	8	5	1	7	6	5	12/22/98	Köster	435	6	05/30/95
	X	5	8	7	2	0	0	3	02/16/99	Köster	435	283.1	05/30/95
	Y	5	9	0	0	4	8	1	05/04/99	Lough <i>et al.</i>	536	55.3	11/06/96
	Z	5	9	2	8	9	0	6	07/27/99	Köster <i>et al.</i>	435	91.2	05/09/96
	AA	6	0	2	2	6	8	8	02/08/00	Jurinke <i>et al.</i>	435	6	05/13/96

EXAMINER

DATE CONSIDERED

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FORM PTO-1449

INFORMATION DISCLOSURE  
STATEMENTATTY. DOCKET NO.  
24736-2046SERIAL NO.  
10/037,356APPLICANT  
Yao *et al.*FILING DATE  
October 24, 2001GROUP  
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
	AB	6	0	2	4	9	2	5	02/15/00	Little <i>et al.</i>	422	100	01/23/97
	AC	6	0	4	3	0	3	1	03/28/00	Köster <i>et al.</i>	435	6	03/18/96
	AD	6	0	7	4	8	2	3	06/13/00	Köster	435	6	11/06/96
	AE	6	1	1	0	4	2	6	08/29/00	Shalon <i>et al.</i>	422	68.1	12/30/97
	AF	6	1	1	1	2	5	1	08/29/00	Hillenkamp	250	288	09/19/97
	AG	6	1	3	3	4	3	6	10/17/00	Köster <i>et al.</i>	536	24.3	09/19/97
	AH	6	1	4	6	8	5	4	11/14/00	Köster <i>et al.</i>	435	91.1	08/31/95
	AI	6	2	0	7	3	7	0	03/27/01	Little <i>et al.</i>	435	6	09/02/97
	AJ	6	2	2	5	4	5	0	05/01/01	Köster	536	22.1	06/07/95

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation YES NO	
	AK	0	0	5	6	4	4	6	09/28/00	PCT				
	AL	0	0	6	0	3	6	1	10/12/00	PCT				
	AM	9	7	4	2	3	4	8	11/13/97	PCT				
	AN	9	8	2	0	0	1	9	05/14/98	PCT				
	AO	9	8	2	0	0	2	0	05/14/98	PCT				
	AP	9	9	1	2	0	4	0	03/11/99	PCT				
	AQ	9	9	5	7	3	1	8	11/11/99	PCT				

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	"IUPACE-IUB Commission on Biochemical Nomenclature Symbols for Amino-Acid Derivatives and Peptides Recommendations (1971)", <i>Biochemistry</i> , <u>11(9)</u> :1726-1731, 1972
	AS	Broach <i>et al.</i> , "High Throughput Screening for Drug Discovery", <i>Nature</i> , <u>384(Suppl 7)</u> :14-16, 1996

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	FILING DATE October 24, 2001	GROUP 1743

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AT	Burbaum <i>et al.</i> , "New Technologies for High-Throughput Screening", <i>Curr. Opin. Chem. Biol.</i> , <u>1</u> :72-78, 1997
AU	Fernandes, P.B., "Letter from the Society President", <i>J. Biomol. Screening</i> , <u>2</u> (1): 1-9, 1997
AV	Janzen <i>et al.</i> , "High Throughput Screening as a Discovery Tool in the Pharmaceutical Industry", <i>Lab Robotics Automation (LRA)</i> , <u>8</u> :261-265, 1996
AW	Weiler <i>et al.</i> , "Hybridisation Based DNA Screening on Peptide Nucleic Acid (PNA) Oligomer Arrays", <i>Nucleic Acids Research</i> , <u>25</u> (14): 2792-2799, 1997

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